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SHIPS USE ASBESTOS TOO

By R. L. Fine

Increased and new uses of asbestos in all of its varied forms are constantly being found. Particularly is this true of the shipbuilding trade, as exemplified by the increased uses adopted in the construction of the new giant liners, such as the Normandie, Rex, Conte de Savoia, and others. A review of these new applications should be of interest to readers of "ASBESTOS."

One of the prime adaptations of asbestos in the new ships is a steady trend toward the use of asbestos panels for insulation of bulkheads and ceilings under decks. Asbestos panels used for this purpose on the Queen Mary (England's latest contribution to the seas) for instance, serve to make the compartments adjacent to boiler rooms and the immense engine room more comfortable. Not only does the application of asbestos in this instance retain the heat within the respective boiler and engine rooms, but also insures an even temperature in engine operation.

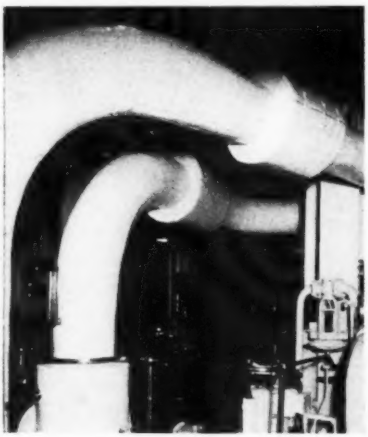
As is readily understood the engines of a ship differ from all other types of machinery since they are subjected to constantly shifting temperatures as the boat enters different climates. It is therefore extremely important that the insulation adopted has the necessary characteristics to withstand these shifting temperatures and for this reason, plus the many others, asbestos in one form or another is now practically mandatory in ship construction.

From still another angle asbestos finds increased use in ships. Air currents, conducive to heat losses, are far more pronounced at sea. It is most important that all cracks and air pockets be filled and sealed. The Italian liner—Conte de Savoia—serves as an example in this instance. The ends of all of the asbestos insulating jobs beneath decks are tapered or rounded off, thus providing a smooth, air-tight joint. The inside of the casings is covered with asbestos paper, the clear white appearance adding a sense of cleanliness to the surroundings. The

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thickness of the asbestos insulation is sufficient to prevent browning or charring on the outside covering, within limits.

Another increased use of asbestos aboard ships is found in connection with machinery supports and pipe-hangers. These are generally insulated from their point of attachment to the heated surface by a cut-to-measure asbestos cloth. If this precaution is not taken, considerable heat loss is sustained by conduction thru these supports. (Conduction has been described by asbestos engineers as the "direct interchange of heat between adjacent molecules which are in direct contact with one another" —this system of interchange existing more often in solids).



Insulation on the Pipes of the S. S. Santa Paula

Photo by courtesy of Johns-Manville

In listing the advantages of its marine panels over a caulked wood deck, one manufacturer states that the asbestos panels are less than half the weight per square foot of a caulked wood deck; furnish easy accessibility of the steel deck for repairs; permit an attractive, finished, fireproof ceiling for quarters below the deck; and has equal thermal insulation, with a 1" thick panel, to that obtained with a wood deck.

In addition to insulation for ceilings, decks or bulk-

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heads, asbestos wallboard also serves a useful purpose aboard ships on the exposed sides and top of deck houses and superstructure, and also on the sides of ships in the way of refrigerator space. Vertical and horizontal surfaces may be insulated more thoroly by completely filling the space formed by the surface to be insulated with asbestos fibre such insulating material being non-combustible. Also, it will not pack down in service. The material may be blown or hand packed into the spaces to be filled and sealed.

To sum up: the use of asbestos products (such as wallboard, paper, etc.) for insulation of bulkheads and ceilings on ships gives the following advantages: light weight, mechanical strength, moisture resistance, resistance to temperature changes, sound-transmission resistance, and susceptibility of decoration. No other material possesses all of these qualifications as do asbestos products.

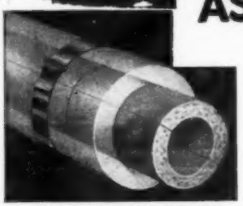
It is not surprising that ship engineers are constantly seeking new uses for asbestos products in ship construction, ably assisted by the asbestos industry at large. The major fear of the sea is fire. How disastrous fire on ships at sea may be is witnessed by such horrible examples as the recent burning of the Morro Castle, and others. Asbestos, with its fireproof characteristics, naturally comes in for much attention.

For many years ship engineers have been seeking an effective panel material for use in staterooms and cabins. In the event of a dreaded fire, if it can be localized within a restricted area after its outbreak, the chances of serious danger are very much minimized. Ships are equipped with every known fire fighting piece of equipment, but the general trouble is that once fire starts it spreads so rapidly that the fire fighting equipment cannot be effectively used. However, engineers realize that if some panel material could be used which would serve to hold the fire within reasonable bounds until the equipment could be brought into play, fire at sea would not be the hazard it has been for many centuries.

An English shipbuilding concern, at Manchester, has

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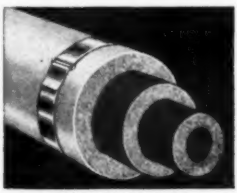
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been experimenting with the purpose of determining upon a panel material that would be fire-resistant primarily, but at the same time would be susceptible to simple molding and handling, and which would have a good finish. Two materials were tried, viz: asbestos wallboard and specially constructed steel-clad plywood. (Steel-clad plywood has been the major material used in American ship construction for many years). Both materials contained the necessary qualifications, but in submitting them to fire tests, it was soon learned that the steel-clad plywood did not meet all of the fire-resisting requirements. Heat penetrates steel; steel is a conductor of heat; naturally, it follows that when high temperatures are reached the plywood is seriously impaired. But since wood in some form is desired in panelling staterooms and cabins on ships, the experiments were continued with the following result:

Asbestos cloth glued to fir panel was substituted in place of the steel-clad plywood. Gas and oil flames, and heated irons, were projected on this special panel. When the asbestos cloth was stripped off the fir panel microscopic examination revealed that the asbestos cloth was slightly burned and charred on the underside, while no holes had burned thru the underlay of wood. A slight bulging appearance was also noted at less severe heat treatment. The tests also revealed that the closer the asbestos sheet was applied to the fir panel, the less the wood was affected by fire.

It naturally follows that the shipbuilding concern in question has adopted the special asbestos cloth glued to fir panel material in its ship construction activities, altho there is no record as yet of its actual use, that is, in floated ships.

Interesting new uses of asbestos, in many forms, are seen in the giant 1,028-foot Normandie of the French Line. (The Normandie is the largest ship afloat, the second largest being the 1,020-foot Queen Mary, which is only 8 feet smaller). There are eight sub-decks, including automobile and airplane storage compartments, below the principal deck of the Normandie. Every one of these decks makes use of asbestos insulation to minimize the

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sound of the motors and to assist in cutting down excessive vibration. Asbestos also forms the major part of the pipe covering used in the boiler rooms of the immense French liner.

Particularly interesting is the development of a paint or lacquer with an asbestos base which was used on almost all of the walls of the Normandie. The use of the asbestos base adds to the fire-resistance of the wall panels, especially in the luxurious staterooms, and serves to confine possible fires within the limits of the cabin. Still another application of this special paint or lacquer is found on the Normandie's furniture, further minimizing the fire hazard. When the reader recalls that it was the oil and paint which caused the fire aboard the Morro Castle (and other ships) to spread so rapidly that dozens perished before any fire-fighting equipment could be brought into play, or before rescue ships could arrive, the importance of the development of a paint with an asbestos base may be realized. Another point: oil and paint when inflamed generally give off dense, black acrid fumes and smoke. The asbestos paint base prevents to a great extent any such occurrence.

Other new uses of asbestos aboard ships include the stocking of asbestos fire-fighting blankets (such as those described in previous issues of "ASBESTOS") and the so-termed fire curtains.

From all of the above, we can certainly state that asbestos is finding more use aboard ships and in ship construction than ever before, each new ship to be launched more fully bearing out this statement. Not only the Normandie, Queen Mary, and Conte de Savoia (all three mentioned in this article) make use of these new asbestos developments, but also such well-known queens of the sea as the Majestic, Bremen, Berengaria, Rex, and others. It will be interesting to follow these new developments when the next large liner to join the Merchant Marine puts out to sea.

Soaking the rich is like trying to turn a fire hose on one man in a crowd without wetting anybody else.—*The Houghton Line.*

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REPORT OF THE NATIONAL RESEARCH COUNCIL

The National Research Council of Canada has issued its Nineteenth Annual Report for the fiscal year 1935-36, and included in this is the report on Asbestos Problems, this latter prepared by D. Wolochow and A. Winsen.

This report on Asbestos reads as follows:

"The evaluation of milled asbestos fibre, particularly of the spinning grades, has been the chief problem under investigation. Owing to the number of factors which must be considered and because of the industrial and commercial implication, this is a vexing problem, and progress towards its solution has of necessity been slow. Several methods for measuring at least some of the physical characteristics which affect the relative values of spinning fibres of varying texture have been developed, and a large number of samples representing all the current grades of spinning fibre have been tested. The results obtained have been presented to the producers in several detailed reports. Towards the end of the year there was obtained a laboratory-size carding machine, which when it is installed will facilitate the study of the carding qualities of asbestos. The work has embraced full-scale factory spinning tests.

"The study gives promise, not only of providing a fuller understanding of the various factors which determine the behavior of a given mass of asbestos fibre, but also of suggesting improvements in the milling methods and the machine used to extract fibre from asbestos rock.

"The industrial importance of asbestos products has been recognized by the American Society for Testing Materials in the formation of a Subcommittee on Asbestos for the purpose of drawing up standard specifications for asbestos products. An active part has been taken in the work of this committee during the year.

"Further work on the separation of magnetic iron from asbestos (a subject of special interest in connection with the use of asbestos in the electrical industry) indi-

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cates that the removal of this undesirable constituent is feasible, using a wet method. Mechanical means for achieving this are being considered.

"A comparative study was made of crude asbestos fibres from different sources, the necessary chemical analyses being made by C. W. Davis.

"Among other matters studied were (a) the weathering of asbestos, (b) the behavior of metals when in contact with asbestos fibre, (c) the effect of asbestos insulation on heating coils, (d) experiments on a new method of treating asbestos with tars, resins, etc., in order to produce a light-weight, water - shedding bonded material.

"The recovery of fibre from asbestos tailings by wet processes and the utilization of the tailings have been studied further. Information has been furnished to several individuals interested in the process, mentioned in previous reports, for producing active silica and magnesium salts from serpentine and in the process, also mentioned previously, for making molded

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products from asbestos. Samples of active silica have been supplied to persons wishing to try this material for various purposes."

BRITISH ASBESTOS INDUSTRY

The Importance of the Building Industry to British Asbestos Manufactured Lines

By Geoffrey Blackall

For several years past the demand for asbestos building products—insulated bricks, jointings, roofings, etc., has been steadily rising in the United Kingdom.

A further favorable factor in the asbestos position is the expansion in the shipbuilding industry, since the amount of asbestos products used in a modern ocean liner is substantially greater than was the case in pre-war vessels.

While in the United States a fairly large percentage of the total volume of asbestos output goes into the manufacture of brake linings, packings, etc., this is not the case in Britain. Asbestos for building purposes absorbs at least 30 per cent of the British output, against only about 15 per cent for brake linings.

The present asbestos position in the United Kingdom is fairly satisfactory, but it will be realized that its prosperity depends largely on the continued progress of the building industry. Consequently, some anxiety has been expressed regarding future business in the event of a major decline—widely predicted—in house construction.

It is probable that fears of this nature will not be realized, for there is every indication that whatever decline occurs in dwelling-house construction will be largely made good by the increase of commercial building. The demand for asbestos in the construction of large office buildings, factories and industrial plants is likely to increase substantially in the near future. Moreover, there are signs that the export trade, which accounts for 25 per cent of the British output of asbestos products—is definitely on the upgrade.

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FLINTKOTE ANNOUNCES--

their new line of Asbestos-Cement Shingles and Siding

In a combination introductory brochure and price list, The Flintkote Company on August 12th announced its new line of asbestos-cement roofing and siding products to the building material and supply trade.

These new materials are also being manufactured under the Beckman-Dawson and Richardson brand names (subsidiaries of Flintkote) in new modern plants erected for this purpose by Flintkote last year. These new asbestos plants are incorporated in Flintkote's existing factories located in Rutherford, N. J., and in Chicago Heights, Ill. Asbestos-Cement Products for the South are made at New Orleans, Louisiana.

The new Flintkote asbestos-cement line includes five major siding items, two types of roofing shingles, and two hip and ridge materials. The sidings, grouped under the trade name "Woodgrain" include two sizes of the popular wavy butt line shingles to be known as "Waveline", a staggered butt shingle called "Shake", a top lap siding shingle and a wide space siding shingle. All of these siding items are attractively wood textured and are available in white, silver gray, green and brown.

Asbestos-cement roofing shingles are furnished in the two most popular styles—Dutch Lap and Hexagonal. The new Dutch Laps have the same distinctive wood texturing of the siding line and are available in gray, red, blue-black, and green. The Hex shingles, furnished in the same colors, are smooth surfaced.

A primary advantage of the new wood textured Flintkote Dutch Lap asbestos shingle is its ease of application with a novel method (patent applied for) using the Flintkote Fastener. The Flintkote Fastener, of solid copper is easily inserted in the lower exposed corners of the shingles and, in this unusual manner, holds two shingles securely together and in place. Flintkote fasteners are said to have exceptional strength and remarkable holding power and to

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be real savers, cutting application costs appreciably.

In a letter of transmittal, addressed to the trade, accompanying the announcement brochure and price list, Stuart H. Ralph, Flintkote vice president in charge of sales, said, "For many years Flintkote's research and production departments have been diligently working to develop a new line of asbestos roofing and siding products. This painstaking activity has produced Flintkote asbestos-cement products which rigidly adhere to the high standards Flintkote has so carefully maintained in other lines."

CHAMELEON

By C. J. Stover

In 1932 the Democrats were raising merry Cain because the Republicans were not enforcing the Anti-Trust Laws.

In 1933 the Democrats passed the N. R. A. Act which was calculated to nullify the Anti-Trust Laws, and then, when the Supreme Court held N. R. A. unconstitutional the blame was put on the Republicans again.

Just a few months ago it seems that the only way the nation could be saved was for the Democrats to "bust the trusts" so a large number of investigations and some prosecutions were started.

At the same time, the President was urging passage of a group of laws which would practically kill the Anti-Trust Laws.

A short time after, the President asked Congress to withhold action on these new modifying laws.

Then in the week of August 16th Congress passed one of the "must" appropriation bills, hung on to the tail of which was the Tydings-Miller Bill. This "must" bill with its rider was signed by the President and is now the Law.

A lot of college professors, politicians and lawyers question why business men are loath to invest in new enterprises, make new plans and pull their oar in the boat of common good.

No finer reason could be found to justify the timidity

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of business men than the vacillating policy described above.

The very same men who are "for" something today, are against it tomorrow, and the shifts are so fast and furious that capital investments cannot possibly hope to keep up.

We do not profess to know what is the best policy but we do know that such violent and rapid *changes* of policy are worse, much worse, than no policy at all.

Furthermore we are compelled to the belief that our leaders in government know little if any more of what is needed than we ourselves know.

It seems to be a grand jumble among the politicians for power and place and whichever group talks loudest has the floor and gets the plums.

Policy, as a statesmanlike force for the greatest number, seems to be a vanished dream.

THE BLUE ASBESTOS MARKET

In confirmation of the quotation in our August issue[1] from the South African Mining Journal of July 3rd, regarding the increased demand for blue asbestos we are assured on good authority that the market for this material—particularly the shorter and medium grades—is exceptionally strong.

The Cape Asbestos Company's mines, we understand, are being worked to capacity and that company, in addition to the reopening of some of its older properties, has purchased blue properties in the Kuruman district recently operated by the Dominion Blue Asbestos Mines (Pty.) Ltd., a subsidiary of Turner & Newall Ltd. Further, purchases of properties, as well as of crude from small producers, have been made in the Pietersburg area where, altho the material is admittedly not of such good quality as that coming from the Cape Asbestos Company's properties, it serves the requirements of many users for other than textile purposes.

European markets, like France, Germany and Italy, are, despite financial restrictions, still substantial buyers

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of the blue asbestos; while the American market is also strong owing to the adoption of the shorter grades in the manufacture of asbestos cement pipes.

Indeed, the present boomlet is akin to that of 1928-1929, but it is to be hoped that no more financial shocks like those of 1930-1931 will arrest its gradual development on to still broader bases in common with the development of asbestos of every variety.

U. S. BUREAU OF MINES

Publishes Bulletin No. 403
Dr. Oliver Bowles, Author

A most informative Bulletin—No. 403—has recently been issued by the U. S. Bureau of Mines on Asbestos. It consists of 92 pages and is illustrated by photographs and graphs.

Much credit is due Dr. Oliver Bowles of the Bureau of Mines for the careful and complete manner in which the information has been compiled and presented, and we are sure the Industry will find this general resume of data on asbestos most helpful.

To give our readers an idea of the contents of the Bulletin, the following are some of the chapter headings: Physical Properties, History, Production and Consumption, Domestic Deposits, Foreign Deposits, International Trade, Mining Methods, Milling Methods, Manufacture of Asbestos Products.

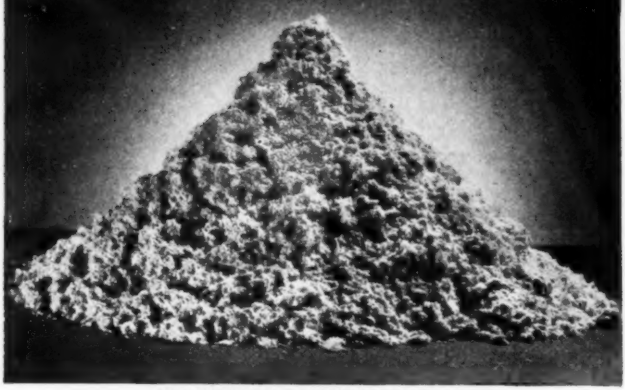
There are a number of tables included in the Bulletin giving world production, world consumption, production in various countries, exports from various countries, Asbestos products manufactured in the United States and in other countries, and so on.

The Bulletin may be obtained from the Superintendent of Documents,[1] Washington, D. C., at a price of 15c per copy. Ask for Bulletin No. 403 on Asbestos.

[1] Subscribers in foreign countries may obtain copies by request to this office at price of 25c per copy, the additional 10c covering cost of postage and handling.

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VERMONT ASBESTOS



MINED IN THE U. S. A.

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CLEAN, well fiberized asbestos particularly well suited for the manufacture of the better types of:

BRAKE LINING	BOILER COVERINGS
CLUTCH FACING	MILLBOARD
ROOFING PAINTS	MOULDED PRODUCTS
SHINGLES	ASBESTOS PAPER

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Samples and Prices upon application

•

VERMONT ASBESTOS CORPORATION

HYDE PARK, VERMONT

Sales Office, 500 Fifth Ave., New York City • Mine, Eden, Vt.

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MARKET CONDITIONS

GENERAL BUSINESS

What is the status of business at the present time, We believe this question is best answered by quoting from the National City Letter for September. These extracts, tho taken from various sections of the letter, give a fair idea of its whole content.

"The general volume of production and trade has been maintained at a relatively high level during August. Judging by preliminary figures, the regularly accepted indices of industrial activity will show a fair margin of gain over a year ago, notwithstanding a moderate decline from the high levels of the Spring. . . .

"Business men look forward to a good volume of trade activity in the Fall but are conducting their affairs conservatively and there is little evidence of the boom psychology prevalent at this time a year ago.

"Adjournment of Congress affords a welcome respite from legislative uncertainties, and for a few months at least business men will be able to go ahead with their plans with less fear of new forms of regulation and restriction from Washington. . . .

"The most favorable factor in the business outlook is the situation in agriculture. Nature has yielded bountiful crops, and notwithstanding the adjustment of prices to larger production, financial returns to the farm population promise to be excellent."

ASBESTOS - RAW MATERIAL

"Demand", says a man familiar with the raw material markets, "is splendid. All producers of asbestos anticipate continued demand for the balance of the year. Prices are firm. The tonnage being produced this year from all sources will greatly exceed the production of 1936."

ASBESTOS - MANUFACTURED GOODS

Textiles. The situation on asbestos textiles remains unchanged from that reported for the last several months.

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There are no outstanding developments, but volume remains about the same and prices are firm.

Paper and Millboard. Little, if any, change in this market since last month. Demand is not heavy, due mostly to the fact that seasonal increase in demand has not yet begun, and to the further fact that shelves of distributors, etc., are well stocked. Prices are firm and have a tendency to increase because of increasing cost of raw materials.

Insulation. High Pressure. Demand continues steady with some delay in shipment because of labor disturbances which, we understand, have now all been settled. Fall consumption will undoubtedly be heavy and the Industry is well prepared to care for it.

Insulation. Low Pressure. This market is beginning some slight seasonal increase, with prices holding firm.

Asbestos-Cement Products. Sales of Asbestos Cement products continue at a satisfactory rate, with volume to date considerably in advance of last year. Asbestos shingle sales have reflected to some slight extent the general slowing down in construction activity, together with the usual mid-summer lull.

THE ENGLISH MARKET

Keeping pace with other factors indicating increased prosperity in the industries of England, the Asbestos Industry holds its own.

For raw material the demand is insistent and supplies are difficult to obtain either in Canadian, Russian, Rhodesian or South African varieties. No other pointer could indicate so well the activities of manufacturers. The big engineering industries, as well as shipping, railways and the like, are all absorbing manufacturing products of various kinds as fast as they can be put on the market.

The rearmament expenditure policy of the Government is naturally absorbing a good deal of this increased output, while asbestos is an important ingredient in the manufacture of filter pads for gas masks which are being prepared for distribution to the civilian population in case of need.

Even the business in blue mattresses for locomotive

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boilers, despite the competition of "Alfol", Glass Silk and other cheaper forms of insulation, is coming back into its own after a long period of neglect and is definitely on the upgrade.

Amosite insulations, as well as the more popular magnesia coverings are also going strong.

It would seem, therefore, that 1937 should be for all English manufacturers a fairly successful year, notwithstanding the new N. D. C. tax which was primarily imposed to offset the profits arising from the manufacture of munitions, etc.

The above comments are made by men well informed as to market conditions in the various asbestos lines. Opinions from readers are always welcome.

CURRENT RANGE OF PRICE

on Canadian Crudes and Fibres

	Per ton (2000 lbs.) f. o. b. Mine
Group 1 (Crude No. 1)	$550.00 to $600.00
Group 2 (Crude No. 2, Crude Run of Mine or Sundry)	150.00 to 225.00
Group 3 Spinning or Textile Fibre	90.00 to 175.00
Group 4 Shingle Fibre	45.00 to 75.00
Group 5 Paper Fibre	32.50 to 42.50
Group 6 Waste, Stucco or Plaster	29.00
Group 7 Refuse or Shorts	10.00 to 23.00

SALES ENGINEER

Large, experienced insulation contractor and distributor requires services of sales engineer, competent to estimate heating, plumbing, air conditioning systems, steam power plants, refrigeration plants: under thirty years of age; willing to live in Richmond, Virginia. Salaried position. Give complete experience, income required, addressing reply to 9R-B, "Asbestos", 16th Floor, Inquirer Bldg., Philadelphia.

ASBESTOS
ORES - MINERALS

Import · Transit · Export

"Tropag" Asbest & Erzimport
Oscar H. Ritter — K.G.

Hamburg · — · Alsterdamm 7

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OLD SALESMEN--

can be good salesmen! A Lesson in Selling

By John T. Bartlett

A mighty profitable diversion is to study the case histories of several hundred salesmen. A great truth discovered is this—old salesmen can be mighty good,—leaders of the force!

It is all wrong, this theory that selling is a young man's game. Sure, young fellows can start in it, and make wonderful showings almost from the start. They have enthusiasm, drive, confidence.

The oldster must hang up his great sales records in a different way. A veteran whose spectacular performance is the talk of the industry says:

"It takes brains to sell merchandise. There are a thousand and one principles and devices for the individual which he can't possibly get out of books, or from instructions. He has to learn them for himself. His education is in his experience.

"The old salesman has had infinitely more experience than the young fellow, which should mean that he knows ever so much more about salesmanship. The old fellow hasn't the wind or the leg-power of the young man—but, with his head, he easily figures out ways of getting the same result with one-third the physical energy the youngster wastefully uses.

"The old veteran should have a priceless back log of trade good will; the affection and confidence of many customers (which is what it is, in large part, because of the time factor). Yes, sir, friendships need to be aged for years—just like certain liquors—to be their best!

"Of course, it's up to the salesman to retain his aggressive spirit. He must have confidence in himself. He must be willing to work hard. Granted these qualities, which any salesman must have, the old fellow, to my idea, has the young salesman at a great disadvantage."

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CONTRACTORS AND DISTRIBUTORS PAGE

The Westinghouse Job at Mansfield, Ohio.

This million dollar building, erected by the Westinghouse Electric & Mfg. Co. as a warehouse and office building, is of interest to the Asbestos Industry because it uses a rather unique type of asbestos-cement construction for its exterior walls.

The building is triangular in shape; it has 305,000 sq. ft. of floor space; is seven stories (or 102 ft.) in height, altho actually there are only five stories since the first two floors have 24 ft. ceilings for warehousing purposes. Each floor has approximately 60,000 sq. ft. of floor space. The roof construction is of saw-tooth type with a glass exposure to the north.



Reprint of sketch by courtesy "Mill and Factory"

But, as we have said, it is the walls which are of most interest to the Asbestos Industry. The first four floors use asbestos-cement corrugated sheathing for the exterior siding; the fifth floor uses flat asbestos-cement sheathing, then the corrugated sheathing is again used until the top of the building is reached, when the flat sheathing forms the cornice trim. This gives the building a modernistic appearance.

Then because the building serves both as a warehouse and an office, asbestos encased insulating board is used as a lining, offering a very neat, clean and permanent inside wall, besides having certain insulation value. The whole wall construction is not much more than 2½ inches in thickness but offers entire protection, insulation, long life and practically no maintenance expense. The sketch above shows this wall construction.

The asbestos cement materials were furnished by the Philip

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Carey Company, which company called our attention to this rather unique wall construction.

Building

With the July record, once again construction has established a new high level for the recovery. According to figures of F. W. Dodge Corporation, the July total for all classes of construction amounted to $321,602,700 in the 37 eastern states, topping the previous high figure of the recovery reported in June of this year in the amount of $317,842,100 and representing an increase of 8 per cent over the total of $294,734,500 reported in July, 1936.

Of the July 1937 volume, $81,046,000 was for residential building, $138,063,500 for non-residential building, and $102,493,200 for civil engineering projects, i. e., public works and public utilities. The residential total compares with $71,993,700 for July 1936 and $93,078,100 for June of this year. The July 1937 non-residential total was about 44 per cent greater than the total for July of last year and exceeded the June 1937 total of $124,837,000 by about 10 per cent. Civil engineering projects started in July fell materially below the figure of $126,615,600 shown for a year ago and were only little better than the total of $99,927,000 shown for June of this year.

For the first seven months of 1937 the total volume of construction undertaken in the 37 Eastern States reached $1,815,253,900; this was an increase of 19 per cent over the total of $1,532,075,300 for the corresponding seven months of last year. Of the 1937 cumulative volume residential building amounted to $597,452,500; for the corresponding period of 1936 residential building totaled $406,838,300.

Construction contracts awarded thruout Canada during the first seven months of 1937 totalled $131,861,100, compared with $95,577,000 in the corresponding period of 1936, according to MacLean Building Reports Limited.

RAW ASBESTOS

N. V. NEDERLANDSCHE ASBEST MY

P. O. BOX 803

ROTTERDAM (Holland)

Stocks at

Hamburg Rotterdam

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Africa (Rhodesia)

(Statistics published by Rhodesia Chamber of Mines)

	June 1937 Tons (2000 lbs.)	Value £	s	d
Bulawayo District				
Nil Desperandum (Afr. Asb. Mng. Co. Ltd.)	631.90	7,666	17	0
Shabanie (Rho. & Gen. Asb. Corp. Ltd.)	3,423.23	53,087	4	9
Pangani (Pangani Tributors)	13.00	81	11	6
Victoria District				
D. S. O. (Mashaba Rho. Asb. Co. Ltd) Jan. to Dec. 1936	8.00	26	0	0
King and Gath's (Rho. & Gen. Asb. Corp. Ltd)	650.40	8,882	10	8
Murie Asbestos (R. M. Murie)	22.00	84	14	0
	4,748.53	£69,828	17	11
June 1936	*4,750.40*	*£69,103*	*17*	....

Canada

(Statistics published by Bureau of Mines, Province of Quebec)

All figures given in Short tons (2000 lbs.)

	June 1936	June 1937
Fibre	23,136	35,341
	July 1936	July 1937
Fibre	27,749	35,194
		2nd Quarter 1937
Crudes		975
Milled Fibres		57,613
Shorts		56,657
		115,245

AUTOMOBILE PRODUCTION

Automobile production for July 1937 amounted to 456,775 (438,834 in the United States and 17,941 in Canada).

This total is slightly higher than that for July 1936. — 451,206 (440,731 in the United States and 10,475 in Canada).

Total for the first seven months of 1937 was 3,374,195 (3,227,683 in the United States and 146,512) which was quite a bit higher than the production for the same period in 1936— 3,045,714 (of which 2,929,921 was produced in the U. S. A. and 116,423 in Canada).

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Imports into U. S. A.

(Figures published by U. S. Dept. of Commerce)

Unmanufactured Asbestos:

	June 1936 Tons (2240 lbs.)	June 1937 Tons (2240 lbs.)
Africa (Br. S.)	478	751
Canada	17,192	20,203
Cyprus, Malta & Gozo	269	765
Finland	.....	20
Italy	169	149
U. S. S. R. (Russia)	1,023	1,725
United Kingdom	19	27
	19,141	23,640
Value	*$697,131*	*$886,502*

Tabulation of Crudes:

Crude (Africa, Br. S.)	478	751
Crude (Canada)	249	269
Crude (Italy)	4	3
Crude (United Kingdom)	19	27
Milled Fibre (Canada)	4,891	5,787
Milled Fibre (U. S. S. R.)	1,023	1,710
Lower Grades (Canada)	12,052	14,147
Lower Grades (Cyprus, Malta & Gozo)	269	765
Lower Grades (Finland)	.....	20
Lower Grades (Italy)	156	146
Lower Grades (U. S. S. R.)	.....	15
	19,141	23,640

Manufactured Asbestos Goods:

	June 1936 Pounds	June 1937 Pounds
Austria (Packing)	1,448	290
Belgium (Shingles)	.....	186,642
Canada (Woven Fabrics)	100	.....
Italy (Packing)	.....	4,844
United Kingdom (Yarn)	6,223	3,393
United Kingdom (Packing)	2,516	3,848
United Kingdom (Woven Fabrics)	.....	1,356
	10,287	200,373
	$ 5,302	*$ 7,639*

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Other manufactured goods imported during June 1937 (not classified as to kind) were valued at $115—($90 worth coming from Belgium and $25 from Canada) making a total of $7,754.

Exports from U. S. A.

Exports of unmanufactured asbestos during the month of June 1937 amounted to 247 tons valued at $24,001; compared with exports in June 1936 of 215 tons, valued at $38,339.

Exports of Manufactured Asbestos Goods.

	June 1936		June 1937	
	Pounds	Value	Pounds	Value
Paper, Mlbd. and Rlbd.	144,118	$12,226	140,891	$16,448
Pipe Covg. & Cement	287,328	12,449	174,915	11,535
Textiles and Yarn	90,186	51,870	18,704	4,500
Packing	(Inc. with Text. & Yarn)		114,052	62,103
Brake Lining—				
Molded & Semi-molded	.....	60,972	.....	75,321
Not molded	154,001[1]	26,378	195,940[1]	26,061
Clutch Facings	29,261[2]	6,371	.....	.....
Molded & semi-molded	(above)		29,464[2]	11,118
Woven	(above)		15,635[2]	2,950
Magnesia and Mfrs. of	313,482	28,341	98,599	8,598
Asbestos Roofing	369[3]	2,169	2,896[3]	20,884
Other Manufactures	249,477	18,247	274,586	30,316

[1]Lin. Ft. [2]Units [3]Squares

Imports and Exports by United Kingdom

Imports of Raw Material.

	July 1936		July 1937	
	Tons (2000 lbs.)	Value	Tons (2000 lbs.)	Value
From Africa (Rhodesia)	1,296	£31,388	2,647	£ 54,417
From Africa (U. of South).	1,055	15,297	605	10,601
From Africa (Port. E.)	.....	1	1	9
From Australia	12	186	3	100
From Belgium	5	85	.....	.....
From Canada	929	9,281	2,467	34,627
From Cyprus	445	4,978	72	479
From Finland	22	147	35	190
From Italy	.....	19	8	718
From Soviet U. (Russia)	26	913	148	2,207
From Venezuela	37	834	.....	.....
	3,827	£63,129	5,986	£103,348

Imports of Asbestos Manufactures:

July 1937 ..... 37,571 Cwts. valued at £11,438
July 1936 ..... 42,749 Cwts. valued at £13,578

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Imports and Exports by United Kingdom (Cont'd)

Exports of Asbestos Manufactures:

	July 1936		July 1937	
	Cwts.	Value	Cwts.	Value
To Irish Free State	3,638	£ 3,710	4,599	£ 4,006
To British India	3,135	8,376	4,370	9,122
To Australia	1,534	9,035	1,538	6,496
To Other British Countries	29,894	31,348	23,710	37,843
To Netherlands	2,147	5,844	1,665	7,373
To Belgium	705	3,271	951	7,496
To France	614	3,401	159	2,295
To Italy	19	205	349	3,528
To Other Foreign Countries	9,641	31,420	20,496	45,182
	51,327	£96,610	57,837	£122,341

Exports of Raw Asbestos from Canada

(Figures by Dominion Bureau of Statistics)

	June 1936		June 1937	
	Tons (2000 lbs.)	Value	Tons (2000 lbs.)	Value
United Kingdom	425	$ 19,803	1,478	$ 91,740
United States	6,056	343,419	6,599	368,490
Australia	86	4,230	141	6,935
British India	.....	.....	35	1,750
Belgium	2,019	114,676	2,403	142,204
France	1,015	62,855	1,490	103,106
Germany	1,094	74,797	1,609	120,697
Italy	.....	.....	123	12,294
Japan	1,435	66,382	3,253	126,284
Netherlands	.....	.....	74	2,200
Poland	33	2,145	.....	.....
Spain	62	3,781	.....	.....
	12,225	$692,088	17,205	$975,700
Sand and Waste				
United Kingdom	403	8,233	535	9,315
United States	13,112	212,780	15,330	262,851
Argentina	5	121	.....	.....
Belgium	279	3,795	405	7,182
Brazil	5	49	20	220
British India	60	750	.....	.....
Germany	427	8,932	168	3,322
Japan	.....	.....	5	110
Poland	.....	.....	63	1,386
	14,291	$234,660	16,526	$284,386
Grand Total	*26,516*	*$926,748*	*33,731*	*$1,260,086*

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NEWS OF THE INDUSTRY

BIRTHDAYS.

Furber Marshall, President Marshall Asbestos Co., Troy, N. Y., September 16th.

Harold B. Buse, President, Insulations, Inc., Cambridge, Mass., September 20th.

J. W. Ledeboer, Second Vice President, Keasbey & Mattison Company, Ambler, Pa., September 20th.

G. Koerner, President, Insulating & Materials Co., St. Louis, Mo., September 24th.

M. William Bray, Secretary, Mohawk Asbestos Shingle Co., Inc., Utica, N. Y., September 25th.

C. Stanley Morgan, Detroit, Mich., September 25th.

R. H. Temple, Treasurer, Thermoid Rubber Co., Trenton, N. J., September 25th.

E. R. Teubner, Jr., President and Treasurer, Philadelphia Asbestos Co., Philadelphia, September 26th.

M. J. O'Malley, President, Standard Asbestos Mfg. Co., Chicago, Ill., September 26th.

J. M. High, of The Ruberoid Co., New York City, N. Y., September 28th.

O. P. Hennig, President, Hennig Asbestos & Packing Co., Chicago, Ill., October 3rd.

A. M. Robinson, Secretary, Johnson's Company Thetford Mines, P. Q., Canada, October 8th.

John H. Victor, President, Victor Mfg. & Gasket Company Chicago, Ill., October 9th.

Russell E. Crawford, Secretary, Ehret Magnesia Mfg. Co., Valley Forge, Pa., October 9th.

R. Tomlinson, President, Pacific Asbestos Supply Co., Portland, Ore., October 12th.

W. W. F. Shepherd, President, Keasbey & Mattison Company, Ambler, Pa., October 13th.

W. M. Paxton, Raybestos Division, Bridgeport, Conn., October 14th.

Thomas D. Stone, President, Stone Industrial Equipment Co., Springfield, Mass., October 14th.

R. H. Shainwald, President, Plant Rubber & Asbestos Works, San Francisco, Cal., October 15th.

R. J. Evans, Chairman of the Board, Asbestos Manufacturing Co., Huntington, Ind., October 15th.

Congratulations and best wishes are extended to these gentlemen on the occasion of their birthdays.

RAYBESTOS-MANHATTAN, INC. The net income of Raybestos-Manhattan, Inc., in the six months ended June 30, 1937, was $1,510,642.40, or $2.37 per share on the Company's stock, after providing for all charges, expenses, and taxes, and adding

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• BLUE ASBESTOS

The Cape Asbestos Company, Ltd., is the world's largest supplier of acid-resistant blue crocidolite asbestos, and the only manufacturer operating its own mines. Inquiries solicited on:

MILLBOARD **YARNS**
ROVINGS **POWDER** **CLOTHS**
PROCESSED FIBRES
Unexcelled for use in
ASBESTOS CEMENT PIPES

• AMOSITE ASBESTOS

This fibre owing to its great length and bulk is unrivalled for use as an insulating medium in:

Asbestos mattress filler
85% Magnesia insulation

The CAPE ASBESTOS CO. Limited
Morley House, 28-30 Holborn Viaduct, London, E.C.I.
FACTORY, BARKING, ESSEX

United States Sales Agent:
ARNOLD W. KOEHLER
369 LEXINGTON AVE. **NEW YORK CITY**
TELEPHONE—CALEDONIA 5-4044

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$150,000,00 to the Reserve for Contingencies for the Surtax on Undistributed Profits, etc. In the same period of the year prior, net income was $989,122.22, or $1.55 per share, before providing for the Surtax.

The Directors of Raybestos-Manhattan, Inc., at their meeting held on August 18, declared a dividend of fifty cents (50c) per share, payable September 15, 1937, to stockholders of record at the close of business August 31, 1937.

THE MUNNIK-MYBURGH ASBESTOS COMPANY of Kaapschehoop in the Transvaal, whose shares were reported to have been acquired by the Cape Asbestos Company, is a small firm which has been operating a white asbestos mine adjoining the Amianthus mine owned by Turner & Newall Ltd. As stated last month, this mine is capable of expanded production and steps have already been taken by the Cape Asbestos Company to secure this end. The good quality of fibre is said to be unquestionable and at the moment the demand has considerably overstepped the supply.

FERODO AND ASBESTOS INCORPORATED, announce plans for major plant expansion, due to increased demand from the automotive industry.

Addition to the present New Brunswick, N. J. plant, of a new building with 46,000 sq. ft. of manufacturing space and expansion of laboratory research facilities are included in the $400,000 program. The new building will be designed and equipped for the production of woven and molded frictional materials, and will approximately double present plant capacity. About 100 additional workers will be added to the employment rolls. A new two-story office building will be erected in conjunction with the new plant, the latter expected to get into production early in 1938.

"The increased demand of the motor car and engineering industries, plus a steadily mounting backlog of unfilled orders, led to this expansion program" states A. C. Teetsel, Managing Director of Ferodo & Asbestos Inc. "Increased capacity will enable us to keep pace with the growing volume of business which is largely a result of the tremendous upswing in motor car and machinery production."

G. A. MacARTHUR CO., St. Paul, Minn., announces that J. H. Brown has been elected Vice President of their Company, and is Manager of their Contract Department. Mr. Brown, as some of our readers may know, was formerly Manager of the Minneapolis Branch of the Keasbey & Mattison Company, occupying that position for 28 years.

The G. A. MacArthur Company has recently completed a two story and basement brick and concrete warehouse, 56 by 68 feet, the natural growth of the business having made it necessary to provide this additional space.

UNITED STATES RUBBER PRODUCTS, INC., of New York

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City, (Mechanical Goods Division) announces a new "miniature" Packing Catalog, featuring the eleven most commonly used U. S. Packings.

The "Preferred Eleven" illustrated in this booklet were chosen because they meet a large percentage of normal packing requirements. The booklet was compiled as a substitute for the larger and more comprehensive Packing Catalog issued by U. S. Rubber Products earlier this year. It should prove particularly valuable as a handy reference for engineers, plant operators, and executives.

RAHN LAKE MINES CORPORATION LIMITED, the head office of which is located at 8½ Main St., W., North Bay, Ontario, has sent us specimens of asbestos from its deposits in the Timagami Forest Reserve, in the Townships of Bannockburn and Montrose, Montreal River Mining Division, Ontario.

The specimens are an excellent grade of chrysotile, very similar to that found at Thetford.

THE PHILIP CAREY COMPANY has recently issued its Manual 303 on Careystone Corrugated Asbestos-Cement Roofing and Siding, and Flat Asbestos-Cement Products, this Manual containing much information and sketches showing the application of asbestos-cement products. Manual No. 11, also recently issued, covers Insulated Sheathing Roof Deck, which consists of two sheets of flat asbestos-cement sheathing, bonded to both sides of commercial insulation board with a heat and moisture proof adhesive.

THE RUSSELL MANUFACTURING COMPANY of Middletown, Conn., announces the appointment of Leo S. Sullivan, previously manager of their New York Branch, to the position of field sales manager; and also the appointment of John R. Howie, for some years assistant to the late Mr. Gerrard, as business manager of their Automotive Wholesale Division. Mr. Howie will be responsible for the conduct of all business of the department at the general offices at Middletown; Mr. Sullivan, cooperating with him, will be in charge of all contact work and distribution in the field.

ESA, Thermoid's Distributor, in Bern, Switzerland has successfully conducted twenty brake clinics thruout their territory. These brake clinics provide a wealth of material for brake service men to absorb, as they are conducted with actual models of brakes and a thoro explanation of the service for each type of brake is given.

JOHNS-MANVILLE CORPORATION is planning 150 meetings for plumbing and heating contractors during the fall months, and expect a total attendance of between eight and ten thousand. Two unusual motion pictures will be featured at these meetings—one pertaining to problems of heat conservation and the other, a spectacular sports film, presented solely for its

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entertainment value. The one featuring heat conservation is a talking motion picture entitled "Heat and Its Control."

A new 16 page catalog, which includes data on all low pressure insulations, asbestos-cement pipe, refractory cements and packings, will be distributed to those attending the meetings.

EMSCO ASBESTOS COMPANY of Downey, Calif., has appointed Major A. C. Stearns Sales Manager with headquarters at Downey. Major Stearns was formerly Eastern District Sales Manager of the Emsco Asbestos Co.

W. D. CRUMPTON. It is with great regret that we learn of the death of W. D. Crumpton, President of W. D. Crumpton & Co. Mr. Crumpton, we understand passed away in July.

THOMAS JENKINS, Vice President and General Manager of the Norristown Magnesia & Asbestos Company returned on September 7th from an interesting and pleasant vacation trip to Europe.

JOHNS-MANVILLE has just issued a 48 page book entitled "Heat". This book while covering the same ground as their new sound motion picture "Heat and Its Control" does so in considerably greater detail. The book is divided into five chapters for easy reference and covers the history of heat from ancient times, the discovery of what heat is with a full explanation of its nature, the science of heat conservation, the modern materials available for conserving heat, and lastly illustrations of the specific use of these materials in individual industries. These books will be given to each person attending a showing of "Heat and Its Control" or may be had on request from Johns-Manville at 22 E. 40th St., New York City.

PATENTS

This information obtained from the Official Patent Gazette, published weekly by the U. S. Patent Office, Washington, D. C.

Noiseless Antiskid Horseshoe. No. 2,085,347. Granted on June 29 to Vincent P. Wachter, Joliet, Ill. Application Dec. 5, 1936. Serial No. 114,487.

An improved noiseless and anti-skid horseshoe, comprising a shoe body of molded reinforced rubber having a tread surface, and inserts of woven wire and asbestos material embedded in the rubber body in a position to have edges of the materials exposed through and forming part of the said tread surface.

Protected Conduit. No. 2,085,441. Granted on June 29 to H. G. Murray and George H. Miner, Syracuse, N .Y., assignor to Johns-Manville Corporation. Application November 11, 1936. Serial No. 110,201.

A commodity comprising a generally horizontally extending elongated member to be protected, a covering disposed thereabout and having in transverse cross section a practically circular exterior surface, and a protecting assembly including semitubes arranged in pairs enclosing the said covering and forming longitudinal joints between their edges at the sides of

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the said covering, and a waterproof flashing element extending thru each of said joints extending thereabove inside one of the semitubes and extending therebelow outside the other of the semitubes.

Asbestos-Cement Agglomerate. No. 2,085,640. Granted on June 29 to Louis Czajko, Antwerp, Belgium. Application June 2, 1936. Serial No. 83,169. In Germany June 19, 1935.

The method of making a homogeneous molded article of fine texture, comprising intimately mixing opened asbestos and cement, slowly adding water during further mixing to form pellets, ceasing the addition of water after the mix is free of powdered material and before the pellets become pasty and then pressing the pellets into intimate contact with each other in a mold to form a dense article.

Asbestos Cement Agglomerate. No. 2,085,640. Granted on June 29 to Louis Czajko, Antwerp, Belgium. Application June 2, 1936. Serial No. 83,169; in Germany, June 19, 1935.

Method of making a homogeneous molded article of fine texture comprising intimately mixing opened asbestos and cement, slowly adding water during further mixing, to form pellets, continuing the addition of water after the mix is free of powdered material and before the pellets become pasty, and then pressing the pellets into intimate contact with each other in a mold to form a dense article.

Lightweight Material. No. 2,085,793. Granted on July 6 to Harold T. Coss, Somerville, N. J., assignor to Johns-Manville Corporation, New York. Application August 18, 1934. Serial No. 740,431.

In making a composition of material the method which comprises providing void containing particles, applying thereto a water repellent material and a volatile extender thereover, subjecting the particles and associated water repellent material to a moderately elevated temperature adapted to volatilize the extender but below that adapted to cause substantial loss of effectiveness of the water repellent material, mixing the thus treated particles with an aqueous binder composition and causing the binder therein to harden whereby there is formed a unitary product with preservation of voids within the granules.

Wide Spaced Shingle. No. 2,086,137. Granted on July 6 to George Ritter, Millington, N. J., assignor to Ruberoid Company, New York. Application April 13, 1935. Serial No. 16,164. A flexible prepared roofing shingle. Further description upon request.

Artificial Plank. No. 2,087,088. Granted on July 13 to Harold W. Greider and Henri Marc, Wyoming, Ohio. Assignors to Philip Carey Mfg. Company, Cincinnati, O.

A plank comprising a bituminous material interspersed with fibre and a filler, the softening point of the bituminous material being from about 150 degrees F. to 235 degrees F. and the penetration of said bituminous material being from about 40

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to about 3, there being distributed thru said bituminous material a fine solid material comprised in said filler which substantially elevates the softening point of the bituminous material when distributed therethru in the quantity used, said plank containing about 25 to 55% of said bituminous material, at least about 5% of said fibre and about 15% to about 45% of said fine material and said fibre being distributed thruout said bituminous material.

Friction Material. No. 2,087,283. Granted on July 20 to Leon A. Griffin, Great Neck, N. Y. Assignor to Johns-Manville, New York. Application April 21, 1934. Serial No. 721,688.

A brake lining strip consisting of a spirally cut section of hollow cylinder of a layer accreted mixture, including a binder of fibrous material and of a length greater than the circumference of said cylinder, a pre-determined portion of said fibrous material being oriented in said cylinder in a direction generally parallel to the edges thereof, and in an oblique position in the spirally cut strip relative to the side edges thereof, corresponding to the angle of the spiral cut.

Heatproof Container. No. 2,087,611. Granted on July 20 to Edward H. Wells, Jr., New York and Richard Jackson, Raritan, N. J. Assignors to Johns-Manville Corporation, New York. Application August 2, 1935. Serial No. 34,331.

A container adapted for use as an airplane mailbag, express bag and the like, comprising heatproof bottom and side walls, a heatproof closing member secured hingewise to top portion of the side wall and provided with a non-rigid heatproof portion adapted to extend across the opening of the container and to be folded on itself to maintain the member in closing position and minimize circulation of air thru the said member and an outer heatproof cover secured hingewise to the outer top portion of the side wall and adapted to be brought into position over the said closing member and to prevent the unfolding of the fold in the said flexible extension.

ASBESTOS STOCK QUOTATIONS

		August		
	Par.	Low	High	Last
Asbestos Corpn. (Com.)	np	78	90	85
Certainteed (Com.)	1	12⅜	14¼	12¾
Certainteed (6% Prior pfd.)	100	50	55¼	51
Flintkote (Com.)	np	26¾	33⅜	28
Johns-Manville (Com.)	np	124	140	129
Johns-Manville (Pfd.)	100	123	125	125
Raybestos-Manhattan (Com.)	np	33¼	37⅛	36
Ruberoid (Com.)	np	32½	37½	34½
Thermoid (Com.)	1	8¼	9⅞	8½
U. S. Gypsum (Com.)	20	103	120	108
U. S. Gypsum (Pfd.)	100	156¼	165	165

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THIS and THAT

Ship Tests. In experiments carried on in an abandoned wartime ship, the Nantasket, anchored in the James River, Virginia, asbestos in various forms best met the most stringent tests. The tests consisted of lining staterooms and bulkheads with various types of fire-retarding and fireproof materials, and then setting fire to the ship, even to setting off explosions on her decks. This according to article by Victor H. Bernstein in an article in the New York Times.

Asbestos Duck. In describing the action of a certain political figure which has gained the limelight recently, the following expression is used: "He waded into the seething caldron like an asbestos duck." We have heard of the asbestos cat but a duck is quite new in asbestos circles!

Suggestion. "American Dream," a novel by Michael-Foster is recommended to our readers.

A. S. T. M. The recent election of officers, as announced at the annual meeting of the American Society for Testing Materials, resulted in the unanimous election of A. E. White, Professor of Metallurgical Engineering and Director of the Department of Engineering Research at the University of Michigan, as President, and H. H. Morgar, Manager Rail and Track Fastenings Department of Robert W. Hunt Co., Chicago, as Vice President.

Westinghouse. The Westinghouse Electric & Mfg. Co. earned a net income during the six months ended June 30th of $11,331,772, which was 43% over the like period of 1936, during which earnings were $7,937,978.

Service. More than 40 per cent. (32,019) of the employees of General Electric have worked with the company for 10 or more years. Charles J. Leephart has been with the company 54 years; Roderick S. McNeil 50 years; 53 employees have served for 45 or more years; more than 200 for 40 years or more; more than 1,000 for 35 or more years; 6,383 have given 25 or more years of service; 11,705 have worked 20 or more years and 19,773 have been employed by the company for 15 or more years. Certainly a good record.

Fire Prevention. October 3 to 9 is Fire Prevention Week. Interested as all of us are in fireproof and fire resistant materials, we should do everything possible to make the public "fire conscious." Suggestions can be obtained from the National Fire Protection Association, 60 Batterymarch St., Boston, Mass.

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